

Product Data Sheet

Product Name: Noratropine

Cat. No.: GC81848

Chemical Properties

Cas. No. 16839-98-8

Formula $C_{16}H_{21}NO_3$

M.Wt 275.34

Solubility Storage Store at 4°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Noratropine is a major metabolite of Atropine. Noratropine can be formed from Atropine via oxidative N-demethylation and can also be isolated from *Anthocercis littorea*. Atropine is a competitive muscarinic acetylcholine receptor (mAChR) antagonist. Atropine can be used in research on anti-myopia and bradycardia [1] [2] [3] [4].

References:

[1]. Evans WC, et al. Distribution of alkaloids in *Anthocercis littorea* and *A. viscosa*. *Phytochemistry*. 1973;12(10):2505-2507.

Caution: Product has not been fully validated for medical applications. For research use only.

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- [2]. Chen HX, et al. LC-MS for identification and elucidation of the structure of in-vivo and in-vitro metabolites of atropine. *Chromatographia*. 2007;65:413-418.
- [3]. NADOR K, et al. N-Allyl-noratropine. *J Med Pharm Chem*. 1961 Jan 10;3:183-5.
- [4]. Wang Z, et al. Indirect competitive enzyme-linked immunosorbent assay based on a broad-spectrum monoclonal antibody for tropane alkaloids detection in pig urine, pork and cereal flours. *Food chemistry*. 2021 Feb 01;337:127617.

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